

CLAIMS

1. A cord type thermal fuse comprising: a fuse core produced by winding a conductor meltable at a predetermined temperature on an insulating core member
5 continuously provided in the length direction; and an insulating cover covering the outer periphery of said fuse core, characterized in that: said conductor can be cut by expanding said insulating core member at a predetermined temperature and/or by contracting said insulating cover at said predetermined temperature.

10 2. The cord type thermal fuse as claimed in claim 1, further characterized in that: said insulating core member has at least one or more protrusions formed continuously or intermittently in the length direction on the outer periphery of said insulating core member.

15 3. The cord type thermal fuse as claimed in claim 1, further characterized in that: said insulating cover has at least one or more protrusions formed continuously or intermittently in the length direction on the inner periphery of said insulating cover.

20 4. The cord type thermal fuse as claimed in claim 1, further characterized in that: another line-shaped or braid-shaped insulator is provided on the inner peripheral side of said insulating cover; and said conductor is sandwiched between said insulating core member and said line-shaped or braid-shaped insulator at least partially in the length direction of said conductor.

25 5. The cord type thermal fuse as claimed in claim 4, further characterized in that: said line-shaped or braid-shaped insulator has a characteristic of contracting in the length direction around a melting temperature of said conductor.

30 6. The cord type thermal fuse as claimed in claim 4, further characterized in that: said line-shaped or braid-shaped insulator has a characteristic of expanding in the peripheral direction around a melting temperature of said conductor.

7. The cord type thermal fuse as claimed in claim 1, further characterized in that:
said insulating core member comprises a gas-containing material as a structural element.

5 8. The cord type thermal fuse as claimed in claim 7, further characterized in that:
said insulating core member comprises a gas-containing material covering a periphery of
a tensile resistant member at the center of said insulating core member.

10 9. A sheet type thermal fuse, comprising: the cord type thermal fuse according to
claim 1, provided on a flat surface in a serpentine manner; and means for fixing a layout
of said cord type thermal fuse.

15 10. The cord type thermal fuse as claimed in claim 2, further characterized in that:
said insulating cover has at least one or more protrusions formed continuously or
intermittently in the length direction on the inner periphery of said insulating cover.

 11. The cord type thermal fuse as claimed in claim 2, further characterized in that:
said insulating core member comprises a gas-containing material as a structural element.

20 12. The cord type thermal fuse as claimed in claim 3, further characterized in that:
said insulating core member comprises a gas-containing material as a structural element.

 13. The cord type thermal fuse as claimed in claim 4, further characterized in that:
said insulating core member comprises a gas-containing material as a structural element.

25 14. The cord type thermal fuse as claimed in claim 5, further characterized in that:
said insulating core member comprises a gas-containing material as a structural element.

30 15. The cord type thermal fuse as claimed in claim 6, further characterized in that:
said insulating core member comprises a gas-containing material as a structural element.

16. A sheet type thermal fuse, comprising: the cord type thermal fuse according to claim 2, provided on a flat surface in a serpentine manner; and means for fixing a layout of said cord type thermal fuse.

5 17. A sheet type thermal fuse, comprising: the cord type thermal fuse according to claim 3, provided on a flat surface in a serpentine manner; and means for fixing a layout of said cord type thermal fuse.

10 18. A sheet type thermal fuse, comprising: the cord type thermal fuse according to claim 4, provided on a flat surface in a serpentine manner; and means for fixing a layout of said cord type thermal fuse.

15 19. A sheet type thermal fuse, comprising: the cord type thermal fuse according to claim 5, provided on a flat surface in a serpentine manner; and means for fixing a layout of said cord type thermal fuse.

20 20. A sheet type thermal fuse, comprising: the cord type thermal fuse according to claim 6, provided on a flat surface in a serpentine manner; and means for fixing a layout of said cord type thermal fuse.

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